Notice of Allowability	Application No.	Applicant(s)
	10/086,074	KUWABARA, TETSUO
	Examiner	Art Unit
	Ngoc-Yen M. Nguyen	1754
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>March 14, 2005</u> .		
2. The allowed claim(s) is/are 24-29.		
3. A The drawings filed on 2/2/2 are accepted by the Examiner.		
4. ☑ Acknowledgment is made of a claim for foreign priority una) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	been received.  been received in Application No cuments have been received in this in of this communication to file a reply ENT of this application.  Itted. Note the attached EXAMINER' tes reason(s) why the oath or declarate t be submitted. on's Patent Drawing Review ( PTO-1) and Amendment / Comment or in the O	complying with the requirements  S AMENDMENT or NOTICE OF tion is deficient.  948) attached
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0: Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Summary ( Paper No./Mail Date 8), 7. ⊠ Examiner's Amendm	e
		Ngoc-Yen M. Nguyen Primary Examiner Art Unit: 1754

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Joseph Eng on June 10, 2005.

The application has been amended as follows:

In the specification: page 1, line 7, delete "calcium fluorite" and insert –calcium fluoride--; page 10, line 4, delete "BREIF" and insert –BRIEF--; page 17, line 5, delete "320" and insert –310--; page 18, last line, delete "302" and insert –304--.

In the claims:

Claim 24 (currently amended): A method of manufacturing a calcium fluoride crystal, said method comprising:

mixing a raw material of calcium fluoride and a scavenger at a predetermined proportion to obtain a first mixture;

fusing refining the first mixture in a crucible to remove impurities refine the raw material of calcium fluoride; and

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mixing the refined calcium fluoride and a scavenger at a predetermined proportion, to obtain a second mixture; and

fusing the second <u>refined</u> mixture in a crucible to cause growth of calcium fluoride crystal <u>having a transition density in the crystal that is not greater than 1 x</u>  $\frac{10^5}{\text{cm}^2}$ , and a dispersion of transition density inside an effective portion of the crystal in a range of  $\pm 5 \times 10^4/\text{cm}^2$ ;

wherein said method includes a baking process before fusing refining the first mixture or a baking process after fusing refining the first mixture but before formation and fusing of the second refined mixture or both, wherein said baking process is carried out as a separate process before from the refining process and the growth fusing process, by using a porous baking crucible different from the refining crucible and the fusing growth crucible.

Claim 26 (currently amended): The method of manufacturing a calcium fluoride crystal according to claim 24, wherein the first mixture contains a scavenger of 0.0005 to 0.05 mol% is added to the fusing step.

The following is an examiner's statement of reasons for allowance: the prior art does not teach or disclose a process for producing calcium fluoride which includes at least one baking step to remove moisture before or after the refining step.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc-Yen M. Nguyen whose telephone number is (571) 272-1356. The examiner is currently on Part time schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Stan Silverman can be reached on (571) 272-1358. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed (571) 272-1700.

> Mgoz. yen songe Ngoc-Yen M. Nguyen Primary Examiner

Art Unit 1754

nmn

June 10, 2005